ASAP Work Order ID 68277 Monday, April 11, 2011 12:36:43 PM D3391-023 Item ID: Accept Setup Start **Revision ID:** Stop Mid Tube Assembly Item Name: **Start Date:** 4/11/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 4/15/2011 Req'd Qty: 1.00 Customer: Reference: Start Run Date / Coling: **Process Plan:** Date: Approvals: Stop Date: QC: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Reject Set Up/ Accept Reject Work Center ID Description Run Hours Code Qty Qty Number Draw Nbr Revision Nbr D3391 Rev H 100 0.00 Skidtubes Skidtubes 0.00 Memo Skidtubes 1-Cut tube to finish length as per Dwg D3391 2-Identify as D3391-023 3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391 4-Open saddles and GHW holes to Ø0.375" exept for fwd-saddle hole of detail-5-Remove .030" from Fwd indexing Ridge as per Dwg D3391 6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

> 8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

7-Deburr

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" 9-Open wearplate noies of D3391-023 assertion, Jetail "J", do not open (14 holes) as per Dwg D3391 and 2 holes in section. Detail "J", do not open WA wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391

Page 1

Insp.

Stamp

W/O:	_	WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
Part No	:	PAR #:	Fault Cate	gory:	NCR: Ye	s No D	QA:	Date: _					
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DATE	STEP	Description of NC			ction B	Ver	ification		Approval				
	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da		ection C	Chief Eng	QC Inspector				

Work Order ID 68277

Monday, April 11, 2011 12:36:43 PM



Page 2

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 4/15/2011

4/11/2011

Start Oty: 1.00 Req'd Qty: 1.00

Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop



Sequence ID/ Work Center ID Operation Description Set Up/ **Run Hours** Tool ID

Tool # Plan

Code

Accept Qty

Reject **Qty**

Reject Number

Insp. Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.

15-Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

11-4-13

W/O:		WORK ORDER CHANGES											
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Work Order ID 68277

Monday, April 11, 2011 12:36:43 PM



Page 3

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date: Required Date: 4/15/2011

4/11/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

	Process Plan:	Date:	Tooling: SPC (Y/N):		ate:		R	un Sta Sto			
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110 QC	QC5- Inspect part com	oleteness to step on W/O	0.00		. r	٠٠.,	M		04	14	6

120

HandFinish

Quality Control

Chemical Conversion Coat per QSI005 4.1

0.00

Hand Finishing

Memo

0.00

130

QC3- Inspect Part Finish

0.00

Memo

0.00

Quality Control

W/O:	- 1	WORK ORDER CHANGES											
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Work Order ID 68277

Monday, April 11, 2011 12:36:43 PM



Page 4

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

4/11/2011

Start Qty: 1.00

Required Date: 4/15/2011

Req'd Qty: 1.00



Cust Item ID: Customer:

Tool ID

Reference:

Approvals:

QC:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date: Date:

Tool # Plan

Code

Run Start

Reject

Accept

Qty

Stop



Sequence ID/ Work Center ID

140

Skidtubes

Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours**

0.00

0.00

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

A/R Sikaflex exp: batch#: m1169

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

160

Skidtubes

Skidtubes

Memo

0.00

0.00

Skidtubes

1-Weld crossbolt spacer as per dwg D3391 & OSI 004

2-grind weld flush

Number

Reject

Stamp

Insp.

Qty

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W/O:			WO	RK ORDER CHANG	GES				
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Work Order ID 68277

Monday, April 11, 2011 12:36:43 PM



Page 5

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Start Date:

Item Name:

Required Date: 4/15/2011

Mid Tube Assembly

QC:

4/11/2011

Start Oty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: _____

Date:

Date:

Tooling: SPC (Y/N):

Date:

Date:

Start

Stop

Stop



Sequence ID/ Work Center ID

170

Quality Control

Operation Description

OC10- Inspect visual per QS1004- ground welds

Set Up/ **Run Hours**

Tool ID

Tool# Plan Code

Accept Qty

Reject Qty

Run

Reject Insp. Stamp Number

QC5- Inspect part completeness to step on W/O

180

185

Quality Control

Memo

Memo

Pressure Wash per QSI005 4.3

0.00

HandFinish

Memo

0.00

Hand Finishing

- AND REALODINE AS PER PAR09-043

1 \$ 11 11/04/20

W/O:			WC	RK ORDER CHANG	ES				
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DATE	STEP	Description of NC	Corrective Action Secti		Verific	cation		Approval	
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Monday, April 11, 2011 12:36:43 PM



Page 6

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name: Start Date:

Mid Tube Assembly

4/11/2011

QC:

Required Date: 4/15/2011

Start Qty: 1.00 Req'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

0.00

0.00

SPC (Y/N):

Set Up/

Run Hours

Date: Date:

Tool # Plan

Code

Run

Accept

Qty

Start

Stop

Reject

Qty

Insp.

BL 11-4-20

Stamp

Sequence ID/ Work Center ID

190

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

m 116.96ct.

FINISH TIME:

200

QC3- Inspect Part Finish

Memo

0.00

0.00

Reject

Number

Quality Control

W/O:			WC	RK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector
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Work Order ID 68277

Monday, April 11, 2011 12:36:44 PM



Page 7

Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 4/15/2011

4/11/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Run

Start



OC:

Date: _____

SPC (Y/N):

0.00

0.00

Set Up/

Run Hours

Tool ID

Tool#

Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

210

Sequence ID/

Work Center ID

Skidtubes Skidtubes

Skidtubes

Operation

Description

Memo

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

220

Quality Control

W/O:		WORK ORDER CHANGES											
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Work Orde Monday, April 1												Page 8
Item ID: Revision ID:	D3391-023			Accept					Setup	Start		
Item Name:	Mid Tube Ass	sembly								Stop		
Start Date: Required Date:	4/11/2011 4/15/2011	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item l Customer:	ID:						
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Approvals:	Process Pla	an:	Date:	Tooling:		ate:		,	Kun			
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Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
230 HandFinish		HandFinishing		0.00					J	<i>/</i>	H	11/04/20
Hand Finishing		Memo Install Insert	s as per Dwg	0.00					,			

240

Quality Control

250 Packaging

Packaging

Identify as per dwg & Stock Location:

QC5- Inspect part completeness to step on W/O

Memo

Memo

0.00

0.00

0.00

Sular/2/

0.00

PT02)

W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
11/04/20	230	Assemble with 03564-5/B6655) (WEARPHATE) 03566-5/B66552 (GASKET)	العلو	14/04/50	۲۱ ۲۱					
Montro	230	Assemble with 03564-5 / NASILH9 (033217 / M117291 (washers) AN3C-4R/ M116924	M	11/04/20	x 12					

Part No:		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:	
	Resolution:		Disposition:	QA: N/C Closed	d:	Date:	

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Work Order ID 68277

Monday, April 11, 2011 12:36:44 PM



Page 9

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

4/11/2011

Start Qty: 1.00

Operation

Description

Required Date: 4/15/2011

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

QC:

OC21- Final Inspection - Work Order Release

Date: Date: Tooling:

SPC (Y/N):

Set Up/

Run Hours

Date:

Date:

Start Run

Stop



Sequence ID/

Work Center ID

260

Quality Control

Memo

0.00

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

0.00

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Picklist Print

Monday, April 11, 2011 12:36:50 PM

Work Order ID: 68277

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



KJ/EC□

EC

EC EC

 $EC\square$

Start Date: 4/11/2011

Required Date: 4/15/2011

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

IPP C 07.03.20 rev F dwg

IPP D 07.03.28 re-format

IPP E 07.10.31 ecn 1053P

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100 Skidtube Extrusion		Manufactured	No			100	Each	104.0000	1	1			
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D3391-021 Fwd Tube Assembly		Manufactured	NO O'U-	-21		100	Each	0.0000	1	1			·······························.
D3389-1 Web		Manufactured	No			140	Each	1.0000		I	01	BL	21/04/19
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Page 1

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Picklist Print

Monday, April 11, 2011 12:36:50 PM

Work Order ID: 68277

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Location

LG001

Start Date: 4/11/2011

Start Qty: 1.00

Required Date: 4/15/2011

Page 2

Required Qty: 1.00

D3681-1

Spacer

Manufactured No

160

210

Loc Oty

Loc Qty

29

29

Each

Each

29.0000

Loc Code

59.0000

20

D3591-1

Bushing

Purchased

Manufactured

ST068

No

No

57350 66147

65990

230

Loc Code

59 22 37

Each

2,000.000

20

Insert

ALS4-1032-130

Location ST281

117331

Loc Oty 2000

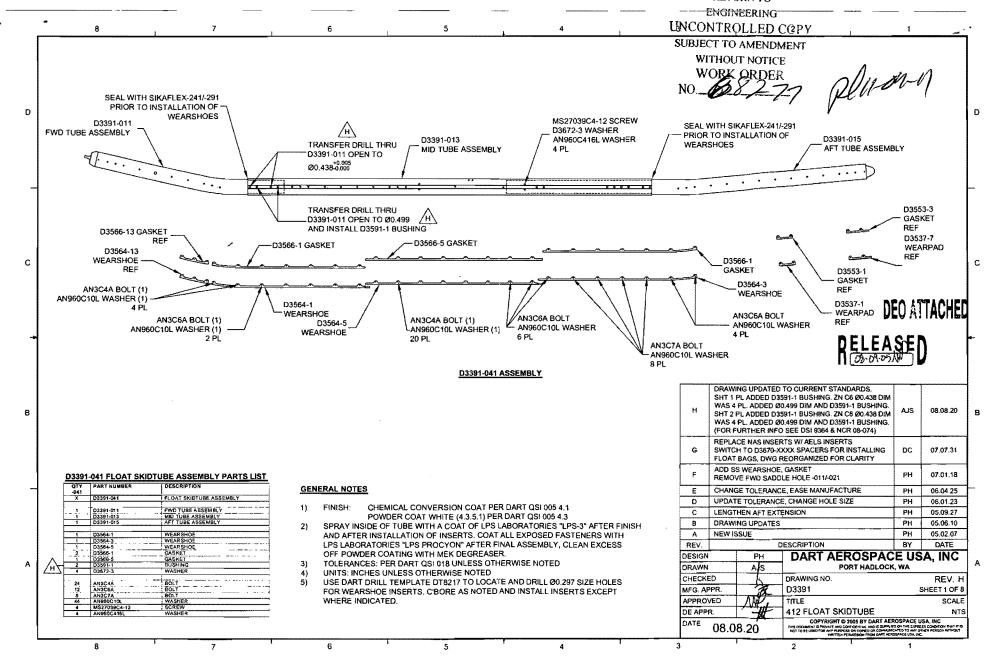
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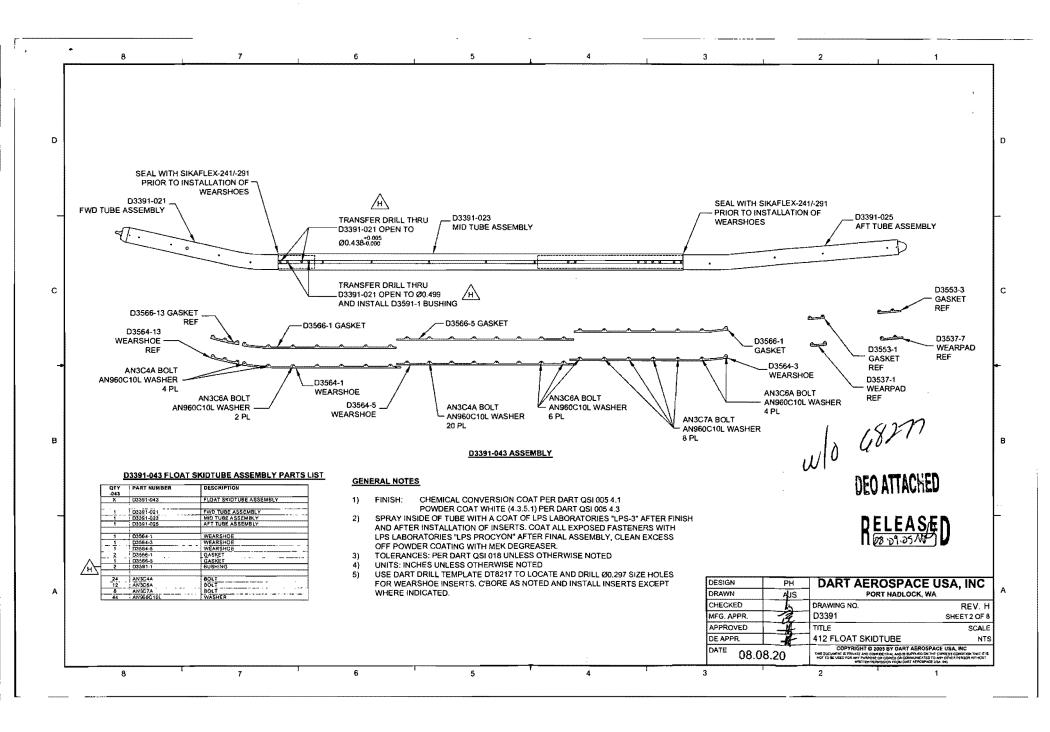
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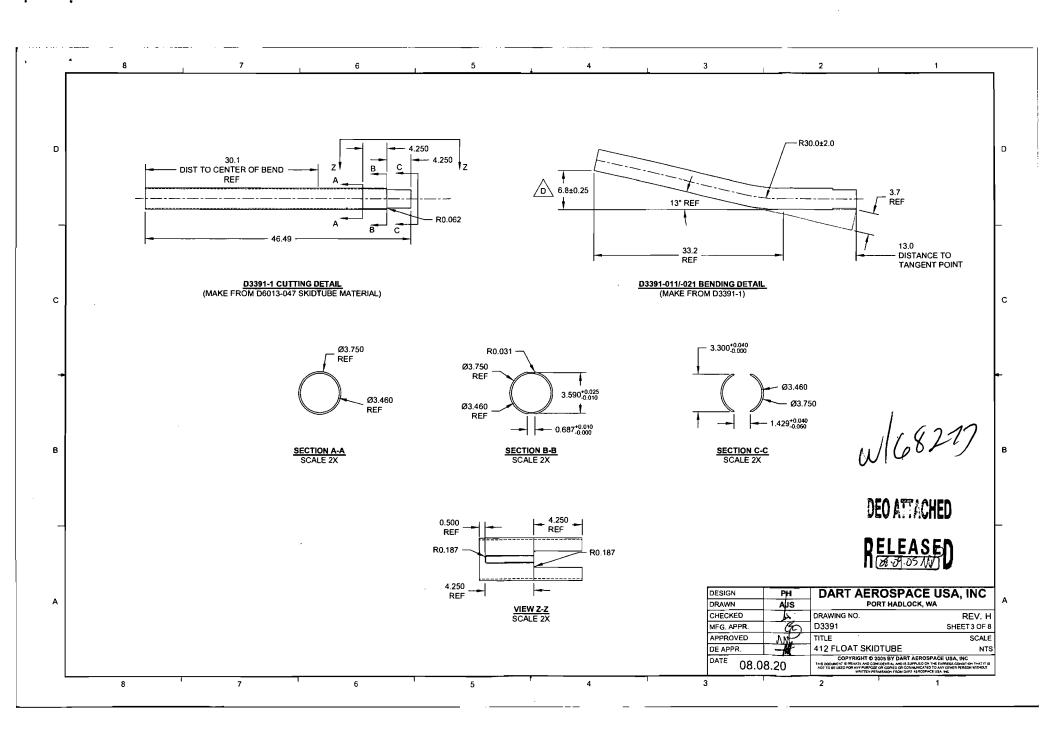
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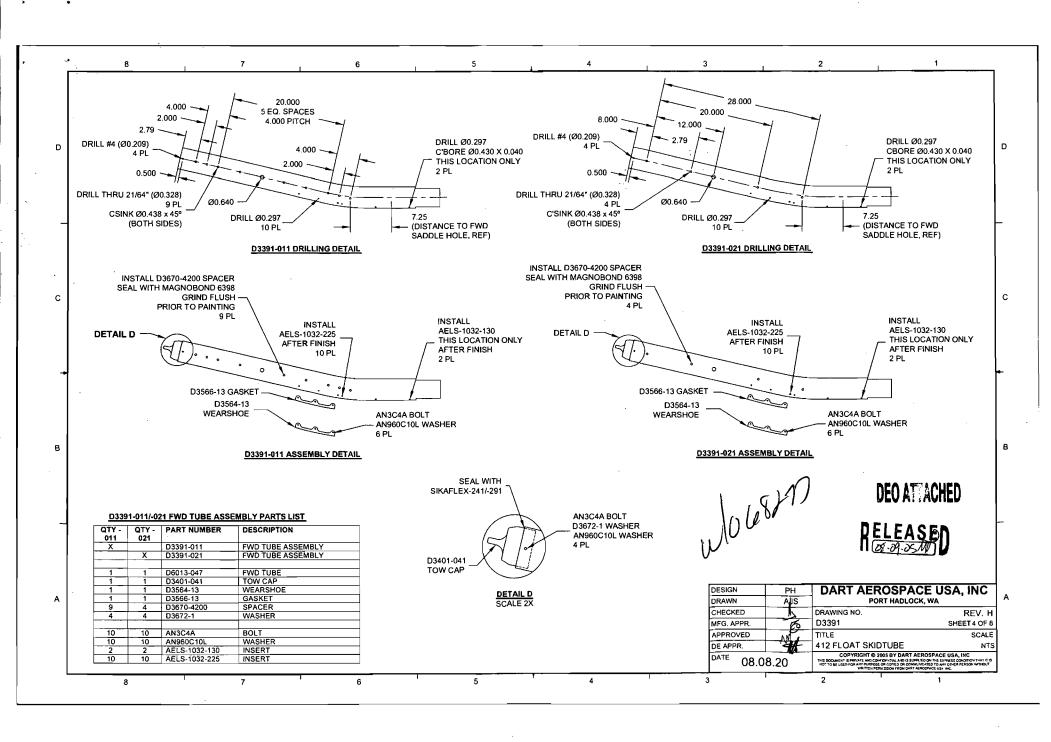
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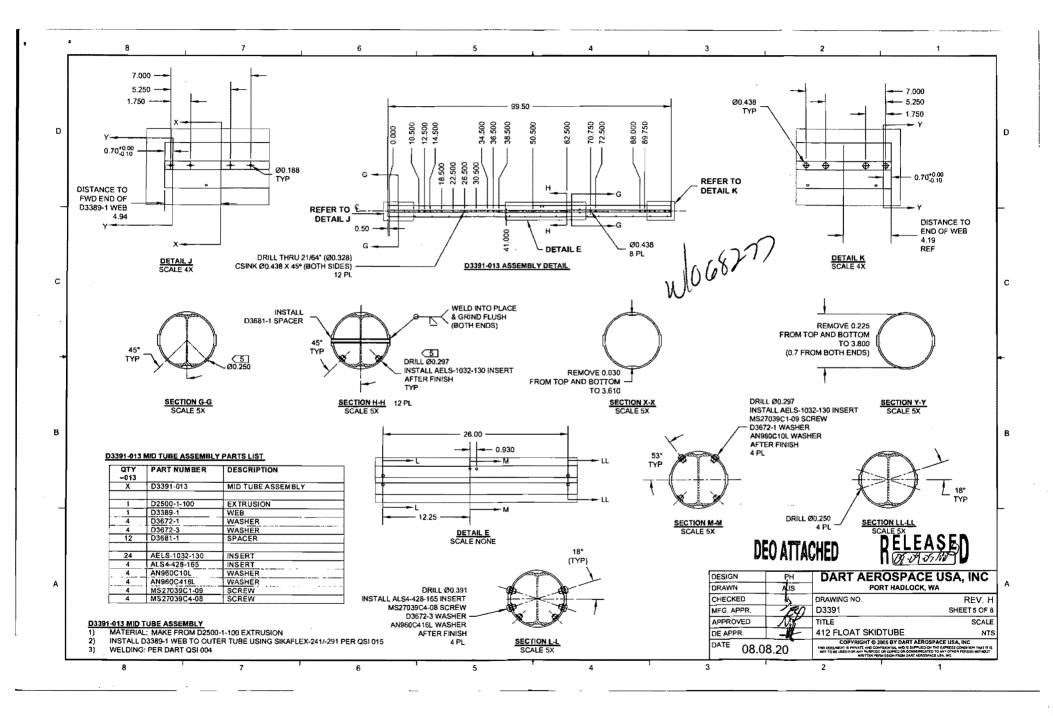
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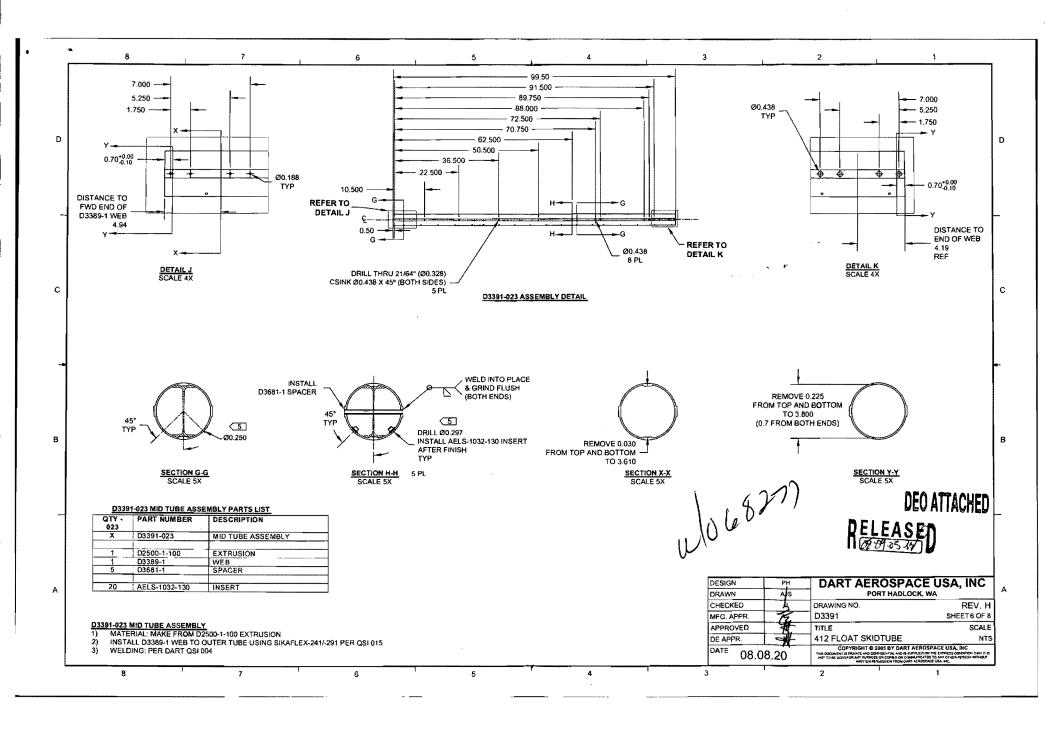
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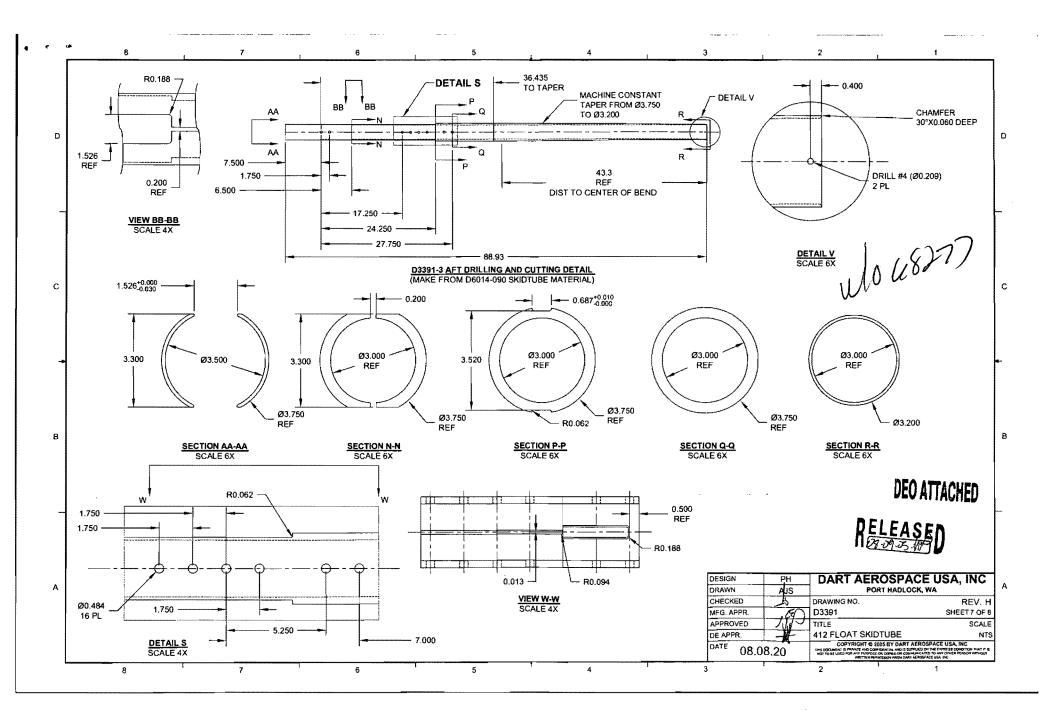
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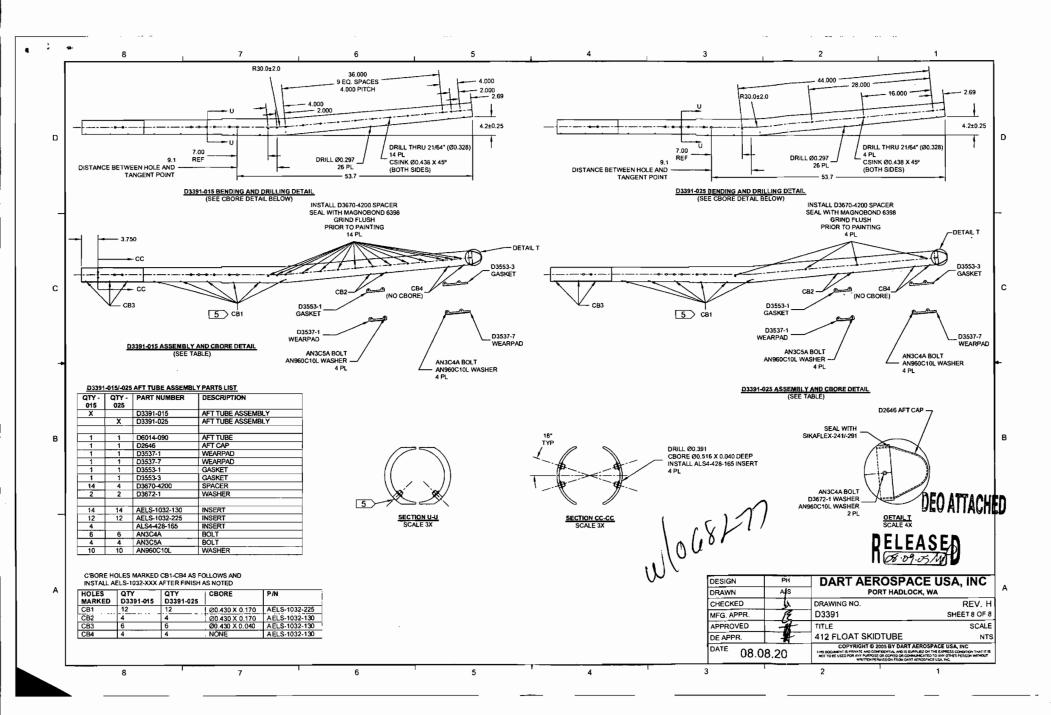
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DRAWING NO.	TITLE	REV. H	DART AEROSPA	ACE USA, INC D.E.C). NO.	SHEET NO.	SCALE
.D3391	412 FLOAT SKIDTUE	E ,	ENGINEERIN	IG ORDER D33	91-H-1	SHEET 1 OF, 1	NTS
DRAWN (1	CHECKE	, l	MFG. APPR.	APPROV	ED NAP	DE APPR.	
DATE 09.09	.23 DATE	04.04.24	DATE 09/00	DATE	09/09/30	DATE 09 09 3	b

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH—AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



W/0 68277

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	0,12,	Section A	Initial Chief Eng	Action Description Chief Eng		Date	Secti	ion C	Chief Eng	QC Inspector		
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NO. 244

AWS D17.1.2001 QUALIFICATION TEST RECORD

De la companya della companya della companya de la companya della
Name: Darkland Ellioff
Job number: <u>65328</u>
Part number: <u>339/~023</u>
Description: mid tube
Welding Process: Tig[\begin{align*} \] Mig[]
Base materiel: Celleeneeum
Current: AC[] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[] fail[] pass[] fail[]
<u>UNACCEPTABLE</u>	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier fat dienen Welder British auf White	Date of Test Coupon // CV 18 Date of Test Coupon // DI-18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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